## WHAT IS CLAIMED IS:

1	1. A portable electronic system configured for a secure transaction,
2	comprising:
3	a card having a width, length, and thickness, wherein a ratio of length to
4	thickness is at least 5;
5	a storage medium to store data; and
6	an integrated circuit device ("IC") including security information,
7	wherein the storage medium and the IC are provided within the card and;
8	wherein the security information stored in the IC is used to authenticate an
9	access request to the storage medium.
1	2. The portable electronic system of claim 1, further comprising:
2	a reader to access the storage medium, the reader including a first interface
3	and a second interface, the first interface being configured to interface with the IC and the
4	second interface being configured to interface with the storage medium.
1	3. The portable electronic system of claim 2, wherein the reader further
2	includes:
3	a security module coupled to the first interface and including a first processor,
4	the security module cooperating with the IC to authenticate the access request.
1	4. The system of claim 3, wherein the security module further includes:
2	a read-only memory, and
3	a second processor configured to perform encryption or decryption algorithm.
1	5. The system of claim 4, wherein the security module further includes:
2	a random number generator, and
3	a random access memory.
1	6. The system of claim 1, wherein the storage medium is a non-volatile
2	semiconductor device.
1	7. The system of claim 1, wherein the storage medium is a flash memory.
1	8. The system of claim 7, wherein the IC is provided directly over the
2	flash memory.

The system of claim 8, wherein an circuit interface is provided 1 9. 2 between the IC and the flash memory. 10. The system of claim 9, wherein the circuit interface is a flexible circuit. 1 11. The system of claim 1, wherein the IC includes a memory, a security 1 information storage area for storing the security information, and a cryptography module. 2 The system of claim 11, wherein the security information is a 1 12. 2 cryptography key. The system of claim 12, wherein the memory includes a secured area 1 13. 2 and a non-secured area. 14. The system of claim 1, wherein the storage medium on the card is a 1 disk, the card including a pin that is configured to move along a first direction and a second 2 3 direction. 1 15. The system of claim 14, wherein the pin moves along the first direction 2 if the card is inserted into a reader to provide an opening for accessing the disk. The system of claim 15, wherein the pin moves along the second 1 16. direction if the card is removed from the reader, thereby closing the opening. 2 The system of claim 1, wherein the ratio of the length to thickness is at 1 17. 2 least 8. 1 18. The system of claim 1, wherein the ratio of the length to thickness is at 2 least about 10.